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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO	
09/845,839	04/30/2001	Robert E. Johnson	10004559-1 3219		
7590 06/17/2004			EXAMINER		
	ACKARD COMPANY	COBY, FRANTZ			
Intellectual Pro	perty Administration		· · · · · · · · · · · · · · · · · · ·		
P.O. Box 272400			ART UNIT	PAPER NUMBER	
Fort Collins, CO 80527-2400			2171		

DATE MAILED: 06/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.



	Application	n No.	Applicant(s)	2
	09/845,839)	JOHNSON ET AL.	L
Office Action Summary	Examiner		Art Unit	
	Frantz Cob	у	2171	
The MAILING DATE of this communication Period for Reply	on appears on the	cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR IT THE MAILING DATE OF THIS COMMUNICAT Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communicat If the period for reply specified above is less than thirty (30) day If NO period for reply is specified above, the maximum statutory Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION. CFR 1.136(a). In no ever tion. s, a reply within the statute period will apply and will y statute, cause the applic	t, however, may a reply be to ory minimum of thirty (30) da expire SIX (6) MONTHS fron ation to become ABANDON	imely filed lys will be considered timely. In the mailing date of this communication ED (35 U.S.C. § 133).	on.
Status				
1) Responsive to communication(s) filed on				
	This action is no			
3) Since this application is in condition for a				is
closed in accordance with the practice un	nder <i>Ex par</i> te Qua	yle, 1935 C.D. 11, 4	53 O.G. 213.	
Disposition of Claims				
4)⊠ Claim(s) <u>1-30</u> is/are pending in the applic	cation.			
4a) Of the above claim(s) is/are wi	thdrawn from cons	sideration.		
5) Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>1-30</u> is/are rejected.				
7) Claim(s) is/are objected to.				
8) Claim(s) are subject to restriction	and/or election red	quirement.		
Application Papers				
9) The specification is objected to by the Exa	aminer.			
10)⊠ The drawing(s) filed on <u>30 April 2001</u> is/a		or b) □ objected to	by the Examiner.	
Applicant may not request that any objection				
Replacement drawing sheet(s) including the o	correction is required	I if the drawing(s) is of	pjected to. See 37 CFR 1.121	(d).
11)☐ The oath or declaration is objected to by t	he Examiner. Note	e the attached Office	Action or form PTO-152.	
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for fo a) All b) Some * c) None of:	preign priority unde	er 35 U.S.C. § 119(a	ı)-(d) or (f).	
1. Certified copies of the priority docu	ments have been	received.		
Certified copies of the priority docu	ments have been	received in Applicat	ion No	
 Copies of the certified copies of the application from the International B 			ed in this National Stage	
* See the attached detailed Office action for	•		ed.	٠
Attachment(a)				
Attachment(s) 1) Notice of References Cited (PTO-892)) Interview Summary	/ (PTO 442)	
2) Notice of Preferences Cited (PTO-692) Notice of Draftsperson's Patent Drawing Review (PTO-94)		Paper No(s)/Mail D	ate	
Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date	SB/08) 5		Patent Application (PTO-152)	
S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Off	fice Action Summary	Pa	art of Paper No./Mail Date 200406	 310

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This is in response to application filed on April 30, 2001 in which claims 1-30 are presented for examination.

Status of Claims

Claims 1-30 are pending.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-8, 13-22, 26-28 are rejected under 35 U.S.C. 102(e) as being anticipated by MacLeod US 2002/0166038.

As per claims 1, 21, MacLeod discloses, "a method for validating a storage device, the method comprising: storing discovery information relating to a storage device" by providing a cache validation mechanism (See MacLeod Figure 2, component 2; Pages 3-4, sections 0034-0039) where entries are stored in the I/O virtual address cache memory including ID field (Figure 2, component 41). In particular, Macleod discloses the claimed limitations of "querying said storage device for device

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identification information; and comparing at least a portion of returned device identification information to at least a portion of said stored discovery information" (See Macleod Page 2, Section 0027; Page 3, section 0031).

As per claim 2, most of the limitations of this claim have been noted in the rejection of claim 1. Applicant's attention is directed to the rejection of claim 1 above. In addition, MacLeod discloses claimed feature of "wherein said at least a portion of said stored discovery information includes device and host bus adapter information" as a bus slot number (See MacLeod Page 2, Section 0028).

As per claim 3, most of the limitations of this claim have been noted in the rejection of claim 1. Applicant's attention is directed to the rejection of claim 1 above. In addition, Macleod discloses the claimed feature of "wherein said stored discovery information is obtained through at least one small computer system interface (SCSI) inquiry" by providing a local bus used for interfacing a peripheral device with the computer system 4 (See MacLeod Page 2, component 0017; Page 4, Sections 0042-0043).

As per claim 4, most of the limitations of this claim have been noted in the rejection of claim 2. Applicant's attention is directed to the rejection of claim 2 above. In addition, Macleod discloses the claimed feature of "wherein said stored discovery information is obtained through at least one element selected from the group consisting

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of: at least one system file; at least one system registry; and combinations thereof" through the Microsoft Windows 2000 registry file (See MacLeod Pages 4-5, Section 0048).

As per claim 5, most of the limitations of this claim have been noted in the rejection of claim 2. Applicant's attention is directed to the rejection of claim 2 above. In addition, Macleod discloses the claimed feature of "wherein said stored discovery information is obtained through at least one element selected from the group consisting of operating system kernel application programming interface call" (See MacLeod Windows Operating System, Pages 4-5, Section 0048); host bus adapter device driver library application programming interface; and some combination thereof as a PCI Bus (See MacLeod Pages 4-5, Section 0048).

As per claims 6-8 and 22, most of the limitations of these claims have been noted in the rejection of claims 1 and 21. Applicant's attention is directed to the rejection of claims 1 and 21 above. In addition, Macleod discloses the claimed feature of "wherein said at least a portion of said returned device identification information includes Product ID, Vendor ID, and Product Revision information" as an identifier or tag bits (See MacLeod Page 2, Section 0027); "wherein said returned device identification information includes standard device inquiry information"; as inquiry for reading and writing (See MacLeod Page 2, Section 0027); "wherein said stored discovery information includes device address information" (See MacLeod Page 2, Section 0026).

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As per claim 13, most of the limitations of this claim have been noted in the rejection of claim 1. Applicant's attention is directed to the rejection of claim 1 above. In addition, Macleod discloses the claimed feature of "wherein said querying includes at least one small computer system interface (SCSI) inquiry" by providing a local bus used for interfacing a peripheral device with the computer system 4 (See MacLeod Page 2, component 0017; Page 4, Sections 0042-0043).

As per claims 14, 26 most of the limitations of these claims have been noted in the rejection of claims 1 and 21. Applicant's attention is directed to the rejection of claims 1 and 21 above. In addition, Macleod discloses the claimed feature of "wherein said method further includes flagging said stored discovery information if said at least a portion of said returned information does not match said at least a portion of said stored discovery information" as an invalid entry error (See MacLeod Page 3, Section 0034).

As per claims 15-16, 27-28, most of the limitations of these claims have been noted in the rejection of claims 14 and 26. Applicant's attention is directed to the rejection of claims 14 and 26 above. In addition, Macleod discloses the claimed feature of "wherein said method further comprises: deleting or updating said stored discovery information if said stored discovery information is flagged"; "wherein said storing discovery information on a host system and a storage management system, and wherein said deleting or updating said stored

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discovery information includes deleting or updating said discovery information stored at said host system and at said storage management system" (See MacLeod Page 3, Section 0034).

As per claims 17-20, most of the limitations of these claims have been noted in the rejection of claim 9. Applicant's attention is directed to the rejection of claim 9 above. In addition, Macleod discloses the claimed feature of "wherein said deleting or updating said stored discovery information stored at said host system further comprises: transmitting an event to said storage managements system requesting said storage management system to delete or update said discovery information stored at said storage management system"; "wherein said method further comprises: storing said returned information as a new device"; "wherein said method further comprises: communicating an event requesting the addition of said returned information or an update of previous information using said returned information"; wherein said method further comprises: preventing communication between a storage management system and said device during said storing said returned information as a new device" (See MacLeod Page 3, Section 0034).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 9-12, 23-25, are rejected under 35 U.S.C. 103(a) as being unpatentable over MacLeod US 2002/0166038 A1.

As per claims 9-11, 23-24, most of the limitations of this claim have been noted in the rejection of claims 6-8. Applicant's attention is directed to the rejection of claims 6-8 above. In addition, Macleod discloses the claimed feature of "flagging said stored discovery information if said determined claimed address information does not match said stored claimed address information" as an invalid entry error (See MacLeod Page 3, Section 0034); "wherein said stored discovery information further includes serial number information for said storage device, and wherein said method further comprises: querying said storage device for serial number information for said device', and comparing said serial number information received in response to said serial number information query to said stored serial number information" (See Macleod Page 2, Section 0027; Page 3, section 0031).

Although MacLeod disclosed determining address information for storage device and comparing address information to stored address information. It is noted however, MacLeod did not specifically detail the aspect of "determining claimed address information for said storage device; and comparing said determined claimed address information to said stored claimed address information" as recited in the instant claim 9.

One of ordinary skill in the art at the time of the invention would have found it obvious to substitute the address information stored in the storage device with claimed

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address information. The motivation being to have enhanced the versatility of the caching mechanism of MacLeod by allowing it to more efficiently validate storage devices and provide a level of fault tolerance; thus, providing an determining claimed address information for storage devices; and comparing the determined claimed address information to the stored claimed address information.

As per claims 12, 25 most of the limitations of this claim have been noted in the rejection of claim 9. Applicant's attention is directed to the rejection of claim 9 above. In addition, Macleod discloses the claimed feature of "wherein said method further comprises: querying said storage device for serial number information for said device" (See Macleod Page 2, Section 0027; Page 3, section 0031) and "accepting said stored device address information as valid if an error is returned in response to said query" as an invalid entry error (See MacLeod Page 3, Section 0035; Page 3, Section 0034).

Claims 29-30, are rejected under 35 U.S.C. 103(a) as being unpatentable over MacLeod US 2002/0166038 A1 in view of Blumenau U.S. Patent no. 6,263,445.

As per claims 29-30, most of the limitations of these claims have been noted in the rejection of claims 1 and 21. Applicant's attention is directed to the rejection of claims 1 and 21 above. In addition, MacLeod discloses "a system for the validation of at least one storage device address (See MacLeod Abstract).

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It is noted, however, MacLeod did not specifically detail the aspect of having one host agent process as recited in the instant claim 29. On the other hand, Blumenau provides a computer system having at least one host agent including a validation mechanism (See Blumenau Abstract; Figures 3 and 6).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the data management storage system of MacLeod by placing it in the network environment provided by Blumenau. One of ordinary skill in the art at the time of the invention would have been motivated to do so because that would have ensured that data was not corrupted during the data transfer.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frantz Coby whose telephone number is 703 305-4006. The examiner can normally be reached on Maxi-Flex (Monday-Saturday).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Safet Metjahic can be reached on 703 308-1436. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Frantz Goby
Primary Examiner
Art Unit 2171

June 12, 2004